

ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY (VERIFICATION)

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBI	ER >	• CTD001148568		
		MALLORY INDUSTRIES, INC SPRING LANE FARMINGTON	СТ	06032
INSTALLATION ADDRE	ss	SPRING LANE FARMINGTON	CT	06032

EPA Form 8700-12B (4-80)

02/20/81

Form Approved OMB No. 158-S79016

IX. DESCRIPTION OF HAZ	ARDOUS WASTE	S (continued from f	ront)	The State of the Contract of	
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E. CHARACTERISTICS OF NO hazardous wastes your installa	N-LISTED HAZAR ation handles. (See 4	DOUS WASTES. Mark 0 CFR Parts 261.21 — 2	"X" in the boxes corres 261.24.)	ponding to the charac	teristics of non-listed
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SIGNATURE.		NAME & OFF	ICIAL TITLE (type or p	rint)	DATE SIGNED
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file

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION I JFK Federal Building, Boston, MA 02203

MEMORANDUM

DATE: June 14, 1990

SUBJ: Mallory Industries, Farmington, CT

FROM: Deborah J. Pernice Superfund Support Section

TO: Gerard Sotolongo, Chief CT Compliance & Enforcement Section

Attached is information on file at the CT DEP regarding the change in status of Mallory Industries from a RCRA TSDF to a Generator. I was unable to locate the RCRA file on this facility in the Records Center. I was told that it had been archived. As it is a RCRA Facility that has undergone a status change, the facility will be deferred to EPA RCRA. I will provide you with a copy of the NUS/FIT Final Screening Site Inspection (SSI) when it is completed.

Please call me at 573-9698 if you have any questions.

cc: Carl DeLoi John Hackler

JUN 10 1090

JUN 19 1990

Ma''ory Industries, Inc.

Spring Lane

Farmington, Connecticut 06032

JOHN W. MALLORY, President J. WICKLIFFE MALLORY, Vice President EDWIN C MALLORY, Treasurer

Telephone 677-2895 (Area Code 203)

September 2, 1982

Mr. Stephen W. Hitchcock Director, Hazardous Waste Materials Unit Department of Environmental Protection State Office Building 165 Capitol Avenue Hartford, CT 06106

Dear Mr. Hitchcock:

In 1981 our company filed a notification of Hazardous Waste Activity for our shop in Farmington. In connection with that notification, we were assigned an EPA identification number (CTD001148568).

After reviewing our situation with members of the State Hazardous Materials Management Unit, as well as independent engineers, we have made arrangements to see that we do not store in excess of 1000 kg of solvents waste in our storage tank for more than 90 days. We understand that this changes our status under the regulations.

We hereby request that our company be re-classified as a "small generator". As such, we understand that the financial requirements of Section 25-54cc(c)-35 of the Connecticut Hazardous Waste Management Regulations do not apply to our company. For that reason, we will not be submitting the Financial Assurance and Insurance Documentation which you have requested to be sent to your office by October 6th.

Please let us know if our assessment of the regulations is correct and if there is any formal procedure for applying to be re-classified as a "small generator".

Very truly yours,

Edwin C. Mallory

Treasurer

ECM/kc

RECEIVEL MANACEMENT UNIT

Mallory Industries, Inc.

Spring Lane

Farmington, Connecticut 06032

Telephone 677-2895 (Area Code 203)

JOHN W. MALLORY, President J. WICKLIFFE MALLORY, Vice President EDWIN C. MALLORY, Treasurer

January 7, 1983 :

Mr. Barry Giroux Senior Sanitary Engineer Hazardous Waste Management Section Department of Environmental Protection 122 Washington Street Hartford, CT 06115

Dear Mr. Giroux:

Our facility was inspected today by Mr. L. Scot Frost of your staff. Although we presently have an EPA identification number (D001148568), we would like to clarify our status, based upon Mr. Frost's inspection, to that of a "Small Quantity Generator." We would appreciate it if you would note in our record that we are recinding our current generator status.

Very truly yours,

in Shallot Edwin C. Mallory

Treasurer

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STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION



Becember 31, 1985

Mr.Edwin Mallory Malloy Industries, Inc. Spring Lane Farmington, Connecticut 06032

Dear Sir:

The Department of Environmental Protection Hazardous Waste Management Section is in the process of finalizing your request for a change in status from a facility to that of a small quantity generator.

Your facility no longer has interim status, therefore, you may not treat, store, or dispose of hazardous waste except for short term storage (<90 days) in compliance with 25-54cc(c)-7(2).

In accordance with the regulations, the Department must notify the public and the facility owner/operator through a public notice announcement via newspaper and radio before final approval of the status change and revocation of interim status.

Enclosed you will find copies of the public notice announcements. Should you have any comments regarding your status change request, please contact Jim Ray or myself at 566-4869.

Sincerely

Christene Tafoya Jordan

Sanitary Engineer

Hazardous Waste Management Section

CTJ:et enclosure

Phone:

165 Capitol Avenue • Hartford, Connecticut 06106

An Equal Opportunity Employer

NOTICE OF INTER TO REVOKE INTERIE STATUS AND CHANGE LEGULATORY STATUS OF FACILITIES THAT DO NOT CONDUCT ACTIVITIES REQUIRING A PERMIT

The Hazardous Waste Management Section of the Connecticut Department of Environmental Protection announces its intent to approve status changes for the following treatment, storage, or disposal facilities.

PACILITY

AMP Cumo Division Belding Corticelli Thread Belding Chemical Industries North Grosvenordale Belding Corticelli Thread Capewell Mfg. Co. Chandler Evans, Inc. Conard Corporation Arrow Bart Division-Cooper Industries Crouse Hinds Co. Crouse Hinds Co. Darworth Company DSD Magnatech Eastern Color Hartford Insurance Group Howmet Turbine Components (New England Aircraft Products) Mallory Industries, Inc. Metals Testing Co. Petroleum Meter & Pump Co. Plastonics, Inc. Tectonic, Inc. Texaco, Inc. 3-M MacDermid Trumpf America, Inc. Rohm & Haas Connecticut, Inc. Kensington

Highway Safety Design & Pabrication (Connecticut

Union Roto-Graving

Bartford Cooperage

Galvanizing)

Bostich Texton

TOWN

Talcottville Putnam North Grosvenordale **Bartford** West Hartford Glastonbury Bartford

Bloomfield Windsor Locks Avon East Granby Avon Hartford

Farmington

Farmington South Windsor Avon Hartford Berlin East Hartford Rockville Parmington Westinghouse Electric Corp. Hartford

> Glastonbury Clinton Putnam Hartford

DESCRIPTION OF CHANGE

mall quantity generator generator mall quantity generator small quantity generator generator generator generator generator

non-handler mon-handler generator generator generator small quantity generator

generator

small quantity generator generator generator generator generator generator generator mall quantity generator generator mall quantity generator

enerator generator generator non-handler

State Hazardous Waste Management Regulations require that all existing facilities treating, storing, or disposing of hexardous weste file a notification on or before 8/18/80 and a permit application prior to Movember 19, 1980 in order to qualify for interim status. Under Interim Status facilities managing hazardous waste could continue to operate legally and in compliance with certain Interim Status Standards until a final decision on could be made. All of the above listed companies filed a notification and permit application which indicated that they their permit application treat, store, or dispose of hazardous waste. Subsequent to the submittal of

these applications, it has een tentatively determined that see companies are not engaged in activities which require a hazardous waste management facility permit. These determinations are based upon information provided by the companies, which has been verified by on-site inspection by this Department.

Comments on the revocation of Interim Status and status changes from facility to generator or requests for a Public Hearing are invited from interested persons and must be submitted by February 24, 1986.

Christene Tofoya Jordan
Department of Environmental Protection
Hazardous Waste Management Section
122 Washington Street - Noom 9
Hartford, Connecticut 06106
Telephone: (203) 566-4869/5712

All comments received within this period will be considered in the final decision regarding the status changes. Status change requests and all supporting documents are on file and may be inspected at the Department of Environmental Protection's Hartford office mentioned above between 8:30 a.m. and 4:30 p.m. Monday through Friday, except holidays.

Stanley J. Pac Commissioner

Date: January 8, 1986
Paper: Hartford Courant



STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION



December 31, 1985

Mr. Michael B. Andreas Chairman, Town Council Town Hall One Monteith Drive Farmington, Connecticut 06032

Dear Mr. Andreas:

Enclosed is a Public Notice of Intent to change status and revoke interim status for the following:

Howmet Turbine Components, Farmington Mallory Industries, Inc., Farmington Trumpf America, Inc., Farmington

Copies are also being sent to the Chairman of your Planning & Zoning Commission, Conservation & Inland Wetlands Commission, and to your Director of Health.

Will you please advise any other appropriate municipal officials of the Notice. The Notice will appear in the Hartford Courant on January 8, 1986, in the Classified Section.

Sincerely,

Coristene Taroya Jordan

Sanitary Engineer

Hazardous Waste Management Section

566-2264

Phone:



STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION



Public Notice

The following is a Public Notice from the Connecticut Department of Environmental Protection.

The Department of Environmental Protection has made a tentative decision to approve the request for change in status from facility to generator, small quantity generator, transporter, or non-handler, and to revoke interim status for the following treatment, storage, and disposal facilities.

Macristy Industries
Mallory Industries, Inc.
Union Roto-Graving
3-M MacDermid
Townsend Industries
Trumpf America, Inc.

New Britain Farmington Putnam Rockville Orange Farmington

For more information regarding this public notice contact the Hazardous Waste Management Section of the Department of Environmental Protection at 566-4869 or by visiting their office at 122 Washington Street (Room 9) in Hartford.

Prior to making a decision to approve or dery the request, the Department of Environmental Protection will consider all comments from the public which are received by February 24, 1986.

John Anderson

Deputy Commissioner

Department of Environmental Protection

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION I JFK Federal Building, Boston, MA 02203

MEMORANDUM

DATE: June 14, 1990

SUBJ: Mallory Industries, Farmington, CT

FROM: Deborah J. Pernice

Superfund Support Section

TO: Gerard Sotolongo, Chief

CT Compliance & Enforcement Section

Attached is information on file at the CT DEP regarding the change in status of Mallory Industries from a RCRA TSDF to a Generator. I was unable to locate the RCRA file on this facility in the Records Center. I was told that it had been archived. As it is a RCRA Facility that has undergone a status change, the facility will be deferred to EPA RCRA. I will provide you with a copy of the NUS/FIT Final Screening Site Inspection (SSI) when it is completed.

Please call me at 573-9698 if you have any questions.

cc: Carl DeLoi John Hackler

> Geny-As promised-Copy of the final SSI. Pls. call me if you have any quetros-Thouks-Dulysmed



19 CROSBY DRIVE BEDFORD, MASSACHUSETTS 01730 617-275-2970

C-583-7-0-57 July 10, 1990

Final Screening Site Inspection
Mallory Industries, Inc.
Farmington, Connecticut

TDD No. F1-8905-01 Reference No. \$375CTW4I\$ CERCLIS No. CTD001158568

INTRODUCTION

The NUS Field Investigation Team (NUS/FIT) was requested by the Region 1 U.S. Environmental Protection Agency (EPA) Waste Management Division to perform a Screening Site Inspection of Mallory Industries, Inc. in Farmington, Connecticut. All tasks were conducted in accordance with Technical Directive Document (TDD) No. F1-8905-01 which was issued to NUS/FIT on May 19, 1989.

Sixteen facilities within and adjacent to the Farmington Industrial Park (FIP), located in Farmington and Plainville, Connecticut, are being investigated by NUS/FIT as potential sources of local groundwater contamination. Thirteen of the facilities are located within FIP and three facilities are located northeast and adjacent to FIP. For the purpose of this investigation, these sixteen facilities will be referred to as the Farmington Industrial Park area (FIP area) (Figure 1).

Six groundwater supply wells, serving 22,700 people in Farmington and Plainville, Connecticut, are located within and near the eastern border of FIP: two Johnson Avenue wells (#3 and #6) and four FIP wells (#1,#2,#3, and #4). State files indicate that the Connecticut Department of Health Services began collecting groundwater samples from the four FIP wells and Johnson Avenue well #3 in June 1975 and from Johnson Avenue well #6 in June 1982. Several volatile organic compounds, including chloroform, tetrachloroethylene, trichloroethylene, and 1,1,1-trichloroethane, were detected. As of January 1990, five of these six wells are active as primary or backup drinking water supply wells. Johnson Avenue well #6, which is not currently used as a drinking water supply well, is being pumped and discharged to Scott Swamp Brook in an effort to decrease trichloroethylene contamination in nearby Johnson Avenue well #3 (BHC, 1989). The FIP well #3 is currently in use; however, when water pressure drops below a minimum level, wells #4, #2, and #1 are brought on-line, respectively as needed (Young, 1990a; 1990b).

Mallory Industries, Inc., located approximately 0.75 miles northwest of the contaminated wells and inside of FIP, has been included in this investigation. NUS/FIT performed a Preliminary Assessment of this property in March 1983. On the basis of information provided in this Preliminary Assessment, the Mallory Industries, Inc. Screening Site Inspection was initiated.

Background information used in the generation of this report was obtained through file searches conducted at the Connecticut Department of Environmental Protection (CT DEP) and at the EPA. Information was also collected during the NUS/FIT onsite reconnaissance and sampling activities conducted in August 1989.

This package follows guidelines developed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, commonly referred to as Superfund. However, these documents do not necessarily fulfill the requirements of other EPA regulations such asthose under the Resource Conservation and Recovery Act (RCRA), or other federal, state, or local regulations. Screening Site Inspections are intended to provide a preliminary screening of sites to facilitate EPA's assignment of site priorities. They are limited efforts and are not intended to supersede more detailed investigations.

SITE DESCRIPTION

Mallory Industries, Inc. (Mallory) is located on Right Lane in the Farmington Industrial Park in Farmington, Connecticut (Figures 1 and 2) (NUS/FIT, 1989a). The facility has been in operation at its current location since 1965, manufacturing cams for the aircraft industry.

The Mallory property is bordered to the north by Spring Lane and Right Lane, to the east and southeast by Edmunds Manufacturing, Inc. (CERCLIS No. CTD054187455), and to the west and southwest by Dell-Manufacturing Company (CERCLIS No. CTD001139336) (Figures 1 and 2) (NUS/FIT, 1989a). Access to the property is unrestricted. The property occupies approximately 3.7 acres of land and consists of one single-story building (Davis, 1989a; NUS/FIT, 1989a). There is one large parking area located on the west portion of the property. Two 550-gallon underground storage tanks for waste solvents and water-soluble waste oil are located at the southwestern corner of the facility, adjacent to the loading dock (NUS/FIT, 1989a).

During the NUS/FIT onsite reconnaissance and soil sampling activities performed on August 14, 1989, the locations of three drywells were identified through information and blueprints obtained from the property owner. The size and depth of these drywells could not be determined by NUS/FIT. One of the drywells, located adjacent to the east side of the building, was used for disposal of partscleaning wastewater. NUS/FIT personnel noted two areas of dead grass in this area of the property. The two other drywells are located adjacent to the south end of the facility and reportedly used for storm drainage from the roof (NUS/FIT, 1989a; Davis, 1989b).

SITE ACTIVITY/HISTORY

Mallory has owned and operated the facility since 1965, manufacturing cams for jet aircraft fuel controls (Davis, 1989c; Kurpaska, 1989). Prior to that time, the land incorporating the Farmington Industrial Park, including the Mallory property, is reported to have been used as a dairy farm. (Taylor, 1989a).

Wastes currently generated from the machining process at Mallory include spent mineral spirits and solvents, spent acid dipping solution, and scrap metal. Spent mineral spirits and solvents have been stored in two 550-gallon underground tanks and removed by a licensed waste hauler since 1983. Before 1983, these wastes were reportedly stored in 55-gallon drums inside the facility prior to removal (CT DEP, 1980; Davis, 1989b; NUS/FIT, 1989a).

Prior to 1985, 137 gallons per day of wastewater from the machining operations were discharged to a drywell adjacent to the northeast side of the building for an unspecified length of time (Davis, 1989b; Erickson, 1985; NUS/FIT, 1989a). Currently, wastewater from the machining process is treated using pH adjustment. During this treatment process, solid material settles out and is stored in 55-gallon drums until removed from the site by Environmental Waste Removal, a licensed waste hauler. The remaining treated wastewater is then discharged to the Farmington Municipal Sewer System under a CT DEP discharge permit issued to Mallory on February 5, 1986 (Erickson, 1985; Kurpaska, 1989; NUS/FIT, 1989a).

The following is a chronologic history of inspections and activities conducted at Mallory:

- 11-25-70 CT WRC inspection Form P-5 reports that facility processes include general machining (milling, drilling, grinding, and lathe work), tumbling, and centrifuging. Wastes generated from these operations include scrap metal, water soluble oils, detergents, and abrasive stone. Sanitary wastes were reported to be "discharged to ground" (CT WRC, 1970).
- 2-19-80 CT DEP inspection Form P-5 reports that wastes from the tumbling operation are directed to floor drains and sewer. Report states waste solvents and oils are collected

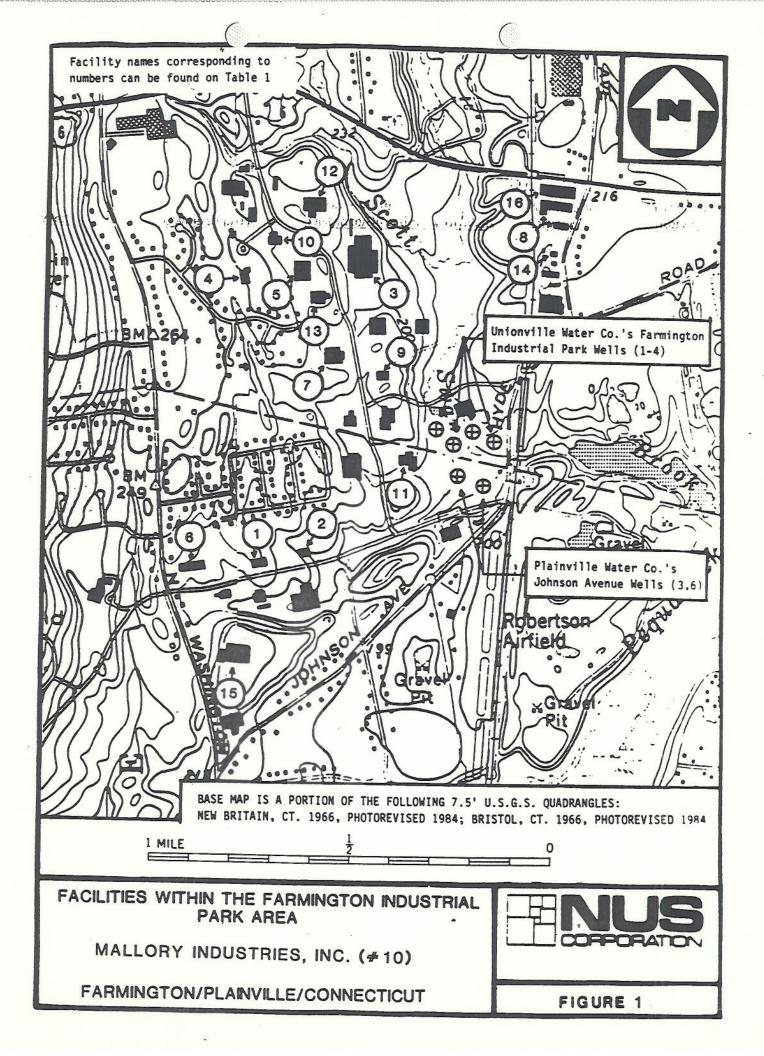


TABLE 1

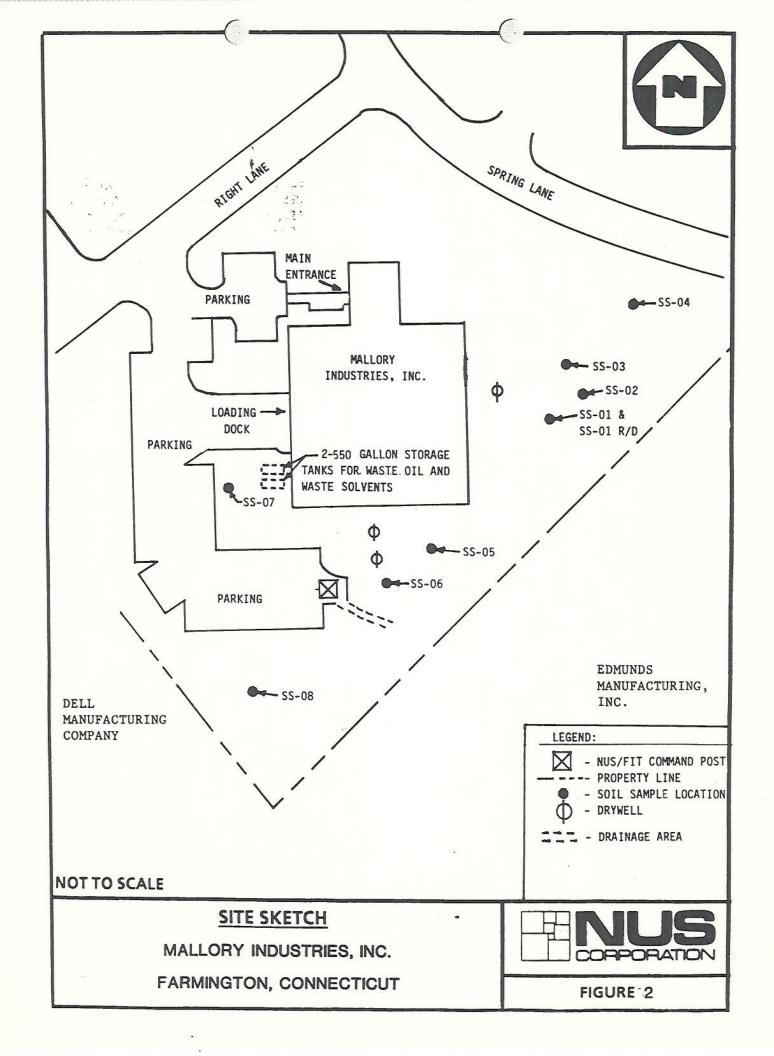
Facilities Within the Farmington Industrial Park Area as depicted in Figure 1

24 1 20

NO.	COMPANY	WATER SUPPLY SOURCE	CERCLIS NO.
1.	American Tool and Mfg.	PWC	CTD001148949
2.	Brown Mfg. Co., Inc.	PWC	CTD001149038
3.	Connecticut Spring and Stamping Co.	FIP	CTD001143007
4.	Dell Mfg. Co.	FIP	CTD001139336
5.	Edmunds Mfg. Co.	FIP	CTD054187455
6.	Esco Laboratories Inc.	PWC	CTD001139310
7.	Fletcher-Terry Co.	FIP	CTD001145309
8.	Gros-ite Ind., Inc.	uwc	CTD982543670
9.	Kip, Inc.	FIP	CTD064844426
10.	Mallory Ind., Inc.	FIP	CTD001148568
11.	Mott Metallurgical Co.	PWC	CTD980524193
12.	New England Aircraft Plant #1	FIP	CTD059831479
13.	New England Aircraft Plant #2	FIP	CTD983870601
14.	Roy Machinery and Sales	UWC	CTD001143957
15.	Transamerica Delaval, Gems Sensor	PWC	CTD065511966
16.	Whitnon-Spindle	uwc	CTD052538105

KEY:

FIP = Farmington Industrial Park Wells PWC = Plainville Water Company UWC = Unionville Water Company



	Sewer (CT DEP, 1300).
3-30-83	NUS/FIT completed a Preliminary Assessment of Mallory.
7-30-85	Engineering contractors, Burton Van Hauten, completed an engineering proposal for a new wastewater treatment system for Mallory (Erickson, 1985).
1-14-86	CT DEP approved the proposal for wastes processed through the wastewater treatment system for discharge to municipal sewer system (Pac, 1986a).
2-5-86	CT DEP permit (#85-466) authorized discharge of treated wastewater (maximum daily flow of 180 gallons) to municipal sewer system (Pac, 1986b).
8-8-86	CT DEP inspected wastewater treatment system prior to use. Stated that floor drain near batch treatment tanks should be sealed to prevent leaks, spillage, and other wastewater from being discharged, untreated, to the sanitary sewer (Ploch, 1986).
8-19-86	Mallory completed installation of wastewater treatment system and began use (Mallory, 1986).
6-1-87	CT DEP inspection memo stated that floor drain was completely sealed (CT DEP, 1987).
8-14-89	NUS/FIT performed an onsite reconnaissance and soil sampling activities at Mallory.
8-14-89	CT DEP performed soil sampling activities at Mallory. Results from analysis indicated "no evidence of volatile hydrocarbons or chlorinated solvents" (CT DEP, 1989a).

in a 500-gallon holding tank and hauled offsite. Previously, these wastes were reported to have been stored in 55-gallon drums. Sanitary wastes are discharged to

ENVIRONMENTAL SETTING

sewer (CT DEP 1980)

The land use in the FIP area is predominantly industrial with some residential, commercial, and agricultural areas (Taylor, 1989b). The topography is defined by gently sloping hills in the center of a northeast trending valley (USGS, 1984a; 1984b).

The overburden in the FIP area consists of stratified glacial outwash deposits that are characteristic of a kame terrace. This material generally contains reddish-brown sands and gravels with occasional clay lenses. In the FIP area these surficial materials have been reported to contain light-colored drift that is deposited on top of a ground-moraine. This ground-moraine is reported to be exposed in the vicinity of Scott Swamp Brook, between Scott Swamp Road and Hyde Road (Simpson, 1959). Well log data from the FIP wells #3 and #4 indicate clay lenses up to 48 feet thick near the ground surface overlying coarse sands and gravels (Duncan, 1974). The depth to bedrock in the FIP area varies from 12 feet in the north along Scott Swamp Road to over 300 feet in the east near the Pequabuck River along Hyde Road (Simpson, 1966). The glacial outwash materials fill a bedrock channel carved out of the soft New Haven Arkose sandstone between more durable basalt ridges to the east and west. The New Haven Arkose is a pale reddish-brown to grayish-red, interbedded coarse to fine-grained sandstone which may be more than 3,000 feet thick throughout the formation (Simpson, 1966).

This central region of Connecticut contains several large fault zones that strike approximately N 50°E, with dip angles near vertical. One fault zone bisects the industrial park just north of Johnson Avenue in Farmington, Connecticut. A large, closed bedrock depression has been mapped as extending as far south as Southington, Connecticut, and as far north as Poplar Swamp in Farmington, Connecticut, and is east to northeast of the FIP area. The base of this depression is approximately 150 feet below sea level, and as much as 340 feet below the Pequabuck River as it flows over the deepest portions of

the depression at the point where Route 6 (Scott Swamp Road) passes over the Pequabuck River (Handman, 1975).

Surface water runoff from the FIP area is generally to the southeast towards Scott Swamp Brook which feeds the Pequabuck River. Catch basin collection systems from parking lots and landscaped lawns also drain into these waterways (NUS/FIT, 1989b). According to the CT DEP Water Compliance Unit, Scott Swamp Brook is designated as Class B/A surface water. A classification of B/A describes surface water quality which is threatened by a source of pollution. The State's goal is to achieve and maintain Class A water quality conditions which support the following uses: potential public water supply, fish and wildlife habitat, recreational use, agricultural use, industrial supply, and other legitimate uses including navigation (Czelusniak, 1990; CT DEP, 1987b). Surface water runoff from Mallory is southeast towards Scott Swamp Brook, which is located approximately 2,000 feet from the property. The Pequabuck River, from it's junction with Scott Swamp Brook, (approximately 1 mile from the surface runoff point of entry) flows north approximately 3 stream miles into the Farmington River (Figure 1). From this junction, the Farmington River flows northeasterly until it joins the southflowing Connecticut River over 15 stream miles away (USGS, 1970; 1984a; 1984b; 1984c; and 1984d). There are no drinking water intakes located along this surface water pathway. The Pequabuck River is used for boating and fishing and the Farmington River is used for fishing and swimming (Kulju, 1987; Jalkut, 1988). According to the CT DEP Natural Resource Center, Shade Swamp is a critical habitat wetland and is located along the Pequabuck River approximately 2 miles downstream of the Pequabuck's junction with Scott Swamp Brook. There are no endangered species listed for this area within a 4-mile radius or within 15 downstream miles from the FIP area (CT DEP, 1989b).

The groundwater surface in the vicinity of the FIP area mimics the surrounding topography and is reported to flow in a southeasterly direction beneath the Mallory property. Groundwater in the FIP area is designated as Class GAA by the CT DEP Water Compliance Unit. Class GAA represents high quality groundwater that is an existing or planned public drinking water supply. Class GAA resources are presumed to be suitable for direct human consumption without water treatment (Czelusniak, 1990; CT DEP, 1987b). The groundwater beneath the area of the Johnson Avenue and Hyde Road junction is at least partially confined by a 20-to 100-foot thick layer of swamp deposits. The Johnson Avenue wells draw water from a coarse gravel layer approximately 20 feet thick that is nearly 90 feet below the swamp deposits. The area west of the Scott Swamp Brook serves as the prime recharge zone for these deep gravel deposits (CT DEP, 1976).

The Johnson Avenue wells and the FIP wells along Hyde Road are the nearest community supply wells to Mallory that have reported contamination. These wells are approximately 0.75 miles southeast from Mallory. These six high yield wells are screened in overburden materials at a depth of 72 to 110 feet below the ground surface and serve approximately 22,700 people (CT DEP, 1975; 1986). The two Johnson Avenue wells are owned and operated by the Plainville Water Company (PWC) and serve approximately 17,000 people. The Johnson Avenue well #6 (Figure 1) is being pumped and discharged into Scott Swamp Brook with permission from the CT DEP in an effort to reduce the trichloroethylene (TCE) contamination in nearby Johnson Avenue well # 3 (BHC, 1989). Johnson Avenue well #3 is currently being monitored monthly and Johnson Avenue well #6 is being monitored weekly for volatile organic compounds. The four FIP wells are owned and operated by the Unionville Water Company. The four FIP wells serve approximately 5,700 people and are also being monitored on a monthly basis for volatile organic compounds (Hayes, 1990). Well # 3 is currently in use. If water pressure drops below a minimum level, wells # 4, # 2, and # 1 are brought on-line, respectively as needed (Young, 1990a; 1990b).

Table 2 lists groundwater supply wells within a 4-mile radius of the FIP area as reported in the 1986 CT DEP "Directory of Community Water Systems in Connecticut." A summary of known industrial wells within a 1-mile radius of the FIP area that have been investigated by NUS/FIT or other investigating organizations can be found in Attachment A. There are no known private drinking water wells still in use in the FIP.

TABLE 2
Groundwater Supply Wells Within 4 Miles of The FIP Area

Well Strate	Ownership/Use	Approximate Distance/Direction	# of Wells	Population Served	Screened Interval
Johnson Ave. A	Plainville Water Co./ Community and Industrial	<.10 E	2	17,000	overburden
FIP B	Unionville Water Company/ Community and Industrial	<.10 E	4	5,700	overburden
Wells Acre C	Unionville Water Co./Community	.80 NW	1	244	bedrock
Cope Manor	Private/Community	1.4 SW	1	84	bedrock
Winthrop Drive Duplexes	Private/Community	1.4 NW	1	unknown	unknown
Woodford Ave.	Plainville Water Co./ Community	1.8 SE	4	1,645 (mixed with surface water)	unknown
Farmington Res.	Unionville Water Co./ Community	2.5 NE	2	11,000	unknown
White Bridge	New Britain Water Dept/Community	2.5 W	2	90,677 (mixed with surface water)	unknown
Mix Street	Bristol Water Dept./ Community	2.5 & 2.9 W	4	52,328	overburden
Angelo Tomasso, Inc.	Private/Community	2.9 SE	3	unknown	unknown
Lakeview Apts.	Unionville Water Co./ Community	2.9 N	2	642	bedrock
Farmington Line West Association	Private/Community	3.2 NW	1	51	unknown
Woodcrest Association Inc.	Private/Community	3.2 NW	1	60	unknown

Forest Hills	Private/Community	4.1 SSW	3	380	unknown
Mobile Home	ę · ·				
Park (Jensens)	19		V. 1. V	* **	
No. 1 & No. 2	Unionville Water Co./	4.8 N	2	2,500	unknown

NOTE: The above information was obtained from the CT DEP 1986 "Directory of Community Water Systems in Connecticut", publication. The distances have been measured from a central point located within FIP. This central point was determined by drawing a circle of smallest circumference that completely enclosed all the properties included as part of the FIP investigation, and, using the center of this circle as the center of the Farmington Industrial Park Area. Wells identified with a letter are wells located within a 1 mile radius of the FIP center and correlate with information in Attachment A (Figure 3).

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The following cities/towns and their populations are located within a 4-mile radius of the FIP area (NWWA, 1986; Czelusniak, 1989):

City/Town	Population
Bristol	57,426
Burlington	5,466
Farmington	5,466 11,299
Burlington Farmington Unionville	11,424
New Britain	73,903
Plainville	17,500
Southington	27,992
3 4	Total 205,010

Only small portions of Burlington, New Britain, Southington and Unionville and their populations are within the 4-mile radius.

The following table lists those towns which have residents living within 4 miles of the FIP area who rely on private wells for their water supply source. The populations shown are based upon the 1980 U.S. Census and should be considered approximate. The population figures correspond to zip code boundaries, which do not necessarily coincide with town boundaries. Therefore, zip code populations do not necessarily equal town populations. Exact locations of the private wells have not been determined as this is beyond the scope of this study.

ZIP	ZIP Code	1980 ZIP Code	Approximate Population
Code	Location	Population	Served By Private Wells
06010	Bristol, CT	57,426	4,354
06013	Burlington, CT	5,466	5,135
06032	Farmington, CT	11,299	3,658
06050 - 06053	New Britain, CT	73,903	42
06062	Plainville, CT	16,951	1,204
06489	Southington, CT	27,992	4,788
06013, 06085	Unionville, CT	11,424	7,506
• • • • • • • • • • • • • • • • • • • •		Totals 204,461	26,687

RESULTS

According to state file information, the Connecticut Department of Health Services (CT DHS) initially collected and analyzed groundwater samples from the four FIP wells and Johnson Avenue well #3 in June 1975. Available records indicate that Johnson Avenue well #6 was first sampled in June 1982. NUS/FIT was unable to determine if Johnson Avenue well #6 was sampled prior to June 1982.

Analytical results from the June 1975 sampling round of all the FIP wells and Johnson Avenue well #3, indicated the presence of several volatile organic compounds (VOCs) at concentrations ranging from 20 to 1,000 parts per billion (ppb). The compounds present in the highest concentrations from the June 1975 sampling round and the available Maximum Contaminant Level (MCL) for these compounds are:

Compound	Concentration	MCL
1,1,1-trichloroethane (TCA)	1,000 ppb	200 ppb
chloroform	680 ppb	-
tetrachloroethylene (PCE)	640 ppb	-
trichloroethylene (TCE)	430 ppb	5 ppb (Attachment B; Tables 1,2)

The highest concentrations of TCA, TCE, and chloroform were all detected in samples collected from Johnson Avenue well #3. The highest concentration of PCE was detected in the sample collected from FIP well #4. June 1975 sampling results detected the highest levels of TCA, PCE and chloroform; however, the highest concentration of TCE (900 ppb) was detected in a July 1975 sample collected from Johnson Avenue well #3 (Attachment B, Table 1 and 2).

Analytical results from the initial sampling round of Johnson Avenue well #6 in June 1982 detected TCA at 8.8 ppb and TCE at 1.2 ppb. PCE was not detected in the initial sampling of Johnson Avenue well #6, and chloroform has never been detected in samples collected from Johnson Avenue well #6. The highest concentrations of TCE (34.8 ppb), TCA (12.8 ppb), and PCE (5.8 ppb) is samples from well #6 have been detected from sampling rounds conducted between December 1986 and September 1988 (Attachment B, Table 1). Analytical results of blended samples collected from FIP wells #3 and #4 can be found in Attachment B, Table 3.

MCLs exist for TCA (200 ppb) and TCE (5 ppb) (US EPA, 1987). Historically, concentrations detected in samples from the Johnson Avenue wells and the FIP wells have exceeded the MCL for TCE. The only recorded concentrations exceeding the MCL for TCA were from samples collected from Johnson Avenue well #3 in June and July of 1975. According to information gathered from the CT DHS, TCA concentrations in samples collected in January 1990, did not exceed the MCL. As of January 1990, TCE concentrations in samples collected from Johnson Avenue well #6 exceeded the MCL. In addition, TCE concentrations in samples from FIP wells #1 and #2 periodically exceeded the MCL (Hayes, 1990).

After the June 1975 sampling round, Johnson Avenue well #3 was taken off-line, purged for 2.5 years, and put back on-line. Each of the FIP wells were taken off-line, purged for 6 months, and put back on-line. According to state file information, a composite sample was collected from the four FIP wells on January 3, 1989. TCE was detected in this sample at a concentration of 15 ppb; NUS/FIT was unable to determine from state file information if other VOCs were also detected in this composite sample. State files indicate that groundwater samples were collected from the two Johnson Avenue wells on January 31, 1989. The VOC detected at the highest concentration was TCE at 22.6 ppb from well #3 (NUS/FIT, 1989c). In general, recent groundwater sampling data from the four FIP wells and the two Johnson Avenue wells indicate a decrease in VOC concentrations as compared with data from initial sampling rounds.

On August 14, 1989, the CT DEP collected three soil samples from the Mallory property. Samples were collected near the underground storage tanks, near the drywell on the east side of the building, and near the southeast corner of the property. The CT DEP did not include information regarding their exact sample locations. All samples were analyzed for hydrocarbons by the Connecticut Department of Health Services. Analytical results of the soil samples indicated "no evidence of volatile hydrocarbons or chlorinated solvents" (Attachment C) (CT DHS, 1989).

On August 14, 1989, NUS/FIT conducted an onsite reconnaissance and soil sampling activities at the Mallory property. Samples were collected from the drywell locations and the area surrounding the underground storage tanks. A total of ten samples were collected (including one background, one duplicate/replicate, and one trip blank). A sample summary is provided in Table 3 and sample locations are indicated on Figure 2.

All samples were analyzed through the EPA Contract Laboratory Program (CLP) for Superfund List compounds and inorganic elements. Analytical results and their quantitation/ detection limits are provided in Attachment D; Tables 1 through 3 and Attachment E; Tables 1 through 3, respectively. Sample results qualified by a "J" on the analytical tables are considered approximate because of limitations identified during the quality control review.

In addition to the complete analytical tables, a sample results summary table has been included (Table 4). The results summary table compares any compound or element detected to the

TABLE 3

Sample Summary Mallory Industries, Inc Soil sample collected by NUS/FIT, August 14, 1989.

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Sample	Sample Traffic	Date		Sample
Location	Report #	Time (hrs)	Remarks	Source
SS-01	22407	8/14/89	Grab 4 foot	Collected 70 feet N35° E from
33.01	AQ204	1142	depth	SE corner of building.
	MAL951	1174	acpti.	JE COMMEN OF DESIGNING.
SS-01R/D	22408	8/14/89	Grab 4 foot	Same location as SS-01.
	AQ205	1240	depth	*
37 4	MAL952			
SS-02	22409	8/14/89	Grab 3 feet	Collected 80.5 feet N32° E
	AQ206	1328	depth	from the SE corner of
	MAL953			building.
SS-03	22410	8/14/89	Grab 3 foot	Collected 72 ft. N44° E from
	AQ207	1400	depth	the SE corner of building.
	MAL954			
SS-04	22411	8/14/89	Grab 2 feet	Collected 70 feet N50° E
	AQ208	1559	depth	from SS-03.
	MAL955			
SS-05	22412	8/14/89	Grab	Collected 65 feet
20	AQ209	1635	2 foot	S70° W from the SW
· :	MAL956		depth	the corner of building.
SS-06	22413	8/14/89	Grab 2 feet	Collected 115 feet \$45° W
	AQ210	1700	depth	from the SW corner of building.
	MAL957			
SS-07	22414	8/14/89	Grab 2 feet	Collected 50 feet N65° W from
	AQ211	1725	depth	the SW corner of building.
	MAL958			
SS-08	22415	8/14/89	Grab 2 feet	Collected 150 feet N10° E from
	AQ212	1755	depth	SW corner of building.
	MAL959			
SS-09	22416	8/13/89	Grab	NUS/FIT QA/QC VOC blank.
	AQ213	1840		

NOTE: N35° E: Indicates magnetic compass bearing from known reference to sample location. Example: N35° E indicates sample location is on a line bearing 35° East of North.

TABLE 4

SAMPLE RESULTS SUMMARY TABLE Mallory Industries, Inc. Soil Sampling - August 14, 1989

		and the second	(ATTACHMI	ENT D/
LOCATION	COMPOUND/	CONCEN	TRATION'	ANALTYCA	ER 1 COMMENTS
	Λ1 - 11 - 2 L				
SS-01	Antimony	4.7 J	ppm	3	Detected
	Beryllium	0.97 J	ppm	3	3 times background concentration
SS-01D	Beryllium	0.93 J	ppm	3	3 times background concentration
SS-02	Chloride	5 J	ppb	1	Detected
(4.11)	Beryllium	0.91	ppm	3	3 times background concentration
SS-03	Methylene chloride	5,1	ppb	1	Detected
	Aluminum	15,000	ppm	3	3 times background concentration
	Barium	48.1	ppm	3	68 times background detection limit
	Beryllium	0.92 J	ppm	3	3 times background concentration
SS-04	Methylene chloride	5.1	ppb	1	Detected
	Aluminum	16,000	ppm	3	3 times background concentration
	Barium	55.5	ppm	3	79 times background detection limit
	Beryllium	0.92 J	ppm	3	3 times background concentration
	Lead	9.4	ppm	3	3 times background concentration
SS-05	Acetone	81	ppb	1	Detected
	Aluminum	13,100	ppm	3	3 times background concentration
	Barium	42.1	ppm	3	60 times background detection limit
	Beryllium	0.94J	ppm	3	3 times background concentration
	Lead	8.5	ppm	3	3 times background concentration
SS-06	Fluoranthene	220 J	ppb	2	Detected
	Pyrene	210 J	ppb	2	Detected
	Aluminum	18,200	ppm	3	4 times background concentration
	Barium	49.9	ppm	3	71 times background detection limit
	Beryllium	1 J	ppm	3	3 times background concentration
	Chromium	16.2 J	ppm	3	3 times background concentration
	Lead	9.1	ppm	3	3 times background concentration
	Zinc	35.4 J	ppm	3	3 times background concentration

TABLE 4 (Continued)

SAMPLE RESULTS SUMMARY TABLE Mallory Industries, Inc. Soil Sampling - August 14, 1989

	COMPOUND/		. = 1011	ANALYTICAL	COMMENTS
LOCATION	ELEMENT TO THE STATE OF	CONCENTR	ATION:	- ABLE MUIVIBER	COMMENTS
SS-07	Phenanthrene	810	ppb	2	Detected
	Fluoranthene	2400	ppb	2	3 times background quantitation limit
	Pyrene	1600	ppb	2	Detected
	Benzo(a) anthracene	750 J	ppb	2	Detected
	Chrysene	990	ppb	2	Detected
	Benzo(b)fluoranthene	1800	ppb	2	Detected
	Benzo(a) pyrene	800	ppb	2	Detected
	Indeno(1,2,3-cd) pyrene	500 J	ppb	2	Detected
	Benzo(g, h, i) perylene	390 J	ppb	2	Detected
	Barium	50.3	ppm	3	71 times background detection limit
	Beryllium	0.93 J	ppm	3	3 times background concentration
	Lead	12.1	ppm	3	4 times background concentration
	Zinc	30.75	ppm	3	3 times background concentration
			5.00		

SS = Soil Sample
ppb = parts per billion
ppm = parts per million

J = Sample results is considered approximate because of limitations identified during the quality control review.

Detected = Compound/Element detected. Sample concentration does not exceed 3 times the background concentration or quantitation/detection limit for this compound or element.

All sample quantitation/detection limit tables can be found in Attachment E.

In addition to the complete analytical tables, a sample results summary table has been included (Table 4). The results summary table compares any compound or element detected to the appropriate background sample. The table summarizes compounds or elements detected at greater than or equal to three times the background sample concentration. However, if the element or compound was not detected in the background sample, the background sample quantitation/detection limit for that compound or element is used as a reference. If the element or compound was detected in a sample but was not detected in the background sample and the concentration does not exceed three times the background sample detection limit, the element or compound is listed as "Detected."

CLP soil sample analyses for volatile organic compounds indicates that one VOC, methylene chloride, was detected at a concentration of 5J parts per billion (ppb) in samples collected from locations SS-02, SS-03, and SS-04. In addition, acetone was detected in the sample collected from location SS-05 at a concentration of 8J ppb. There were no volatile organic compounds detected in the sample collected from the background location, SS-08. Ten extractable organic compounds were detected. All were detected at concentrations less than three times their respective background concentration or detection limit except for fluoranthene, which was detected in SS-07 at a concentration greater than three times the background concentration. Of the 23 inorganic elements analyzed for, five (beryllium, aluminum, lead, chromium and zinc) were detected at concentrations ranging from three to four times the background concentration. One element, barium was detected at concentrations ranging from 60 to 79 times the respective background detection limit.

Analytical results from sample location SS-07, on the southwest portion of the property adjacent to the underground storage tanks, indicated the greatest number and concentrations of extractable organic compounds detected above the background concentrations or background quantitation limits.

SUMMARY

Sixteen facilities in and adjacent to the Farmington Industrial Park (FIP) are being investigated by NUS/FIT as potential sources of volatile organic compound contamination of local groundwater wells. Six overburden supply wells, located within the park and serving 22,700 Farmington and Plainville residents, have been found to be contaminated with chloroform, 1,1,1-trichloroethane, trichloroethylene, and tetrachloroethylene.

Mallory Industries, Inc. has been in operation manufacturing cams for the aircraft industry since 1965. Inspections have been conducted by the Connecticut Water Resources Commission (CT WRC) and the Connecticut Department of Environmental Protection (CT DEP) between 1970 and 1987. Prior to 1985, it was reported that wastewater from the machining operations was discharged to a drywell adjacent to the northeast side of the building, for an unspecified length of time. Wastes generated from the machinery processes include mineral spirits, spent acid dipping solution and scrap metal.

In 1986, Mallory Industries, Inc. obtained a permit from the CT DEP to dispose wastewater through an approved treatment system to the municipal sewer system. This process is currently in use.

The CT DEP collected three soil samples from the Mallory Industries, Inc. property in August 1989. Analysis of the samples indicated "no evidence of volatile hydrocarbons or chlorinated solvents."

NUS/FIT collected ten soil samples from the Mallory Industries, Inc. property in August 1989. Organic compound analysis of the samples by an EPA Contract Laboratory indicated that one extractable organic compound, fluoranthene, was detected at a concentration greater than three times the background concentration (220J parts per billion). Five inorganic (list) elements were detected at concentrations ranging between three and four times the background concentration. Barium was detected at concentrations ranging from 60 to 79 times the respective background detection limit. Lead was detected between three and four times the background concentration.

Groundwater is used to supply water for domestic purposes to towns within a four-mile radius of the Mallory Industries, Inc. property. The nearest community supply wells are located approximately 0.75 miles southeast from the Mallory Industries, Inc. property and serve approximately 22,700 people.

Prior to 1985, Mallory Industries, Inc. disposed of wastewater from the maching solvents operations to a drywell northeast of the building for an unspecified length of time.

Information obtained from the CT DEP files indicates that Mallory Industries, Inc. changed RCRA status from a TSD facility to that of a small quantity generator. The Hazardous Waste Management Section of the CT DEP announced its intent to approve status change and revoke interim status on January 8, 1986 (PAC, 1986c).

At this time, NUS/FIT and Region I EPA concur that Mallory Industries, Inc. is under RCRA purview; therefore, current activities are deferred to that agency.

Submitted by:

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Approval:

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JS:aa

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LIST OF ATTACHMENTS

ATTACHMENT A:

KNOWN PRIVATE INDUSTRIAL WELLS WITHIN A 1-MILE RADIUS OF FIP

CENTER.

ATTACHMENT B:

JOHNSON AVENUE AND FIP HISTORICAL WELL DATA.

ATTACHMENT C:

CONNECTICUT DEPARTMENT OF HEALTH SERVICES ANALYTICAL RESULTS

OF SOIL SAMPLES COLLECTED FROM MALLORY INDUSTRIES, INC.

ATTACHMENT D:

CLP ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED BY NUS/FIT ON

AUGUST 14, 1989.

Table 1:

CLP Volatile Organic Analysis Soil Analytical Results.

Table 2:

CLP Extractable Organic Analysis Soil Analytical Results.

Table 3:

CLP Inorganic Analysis Soil Analytical Results.

ATTACHMENT E:

CLP SOIL SAMPLE QUANTITATION AND DETECTION LIMITS.

Table 1:

CLP Volatile Organic Analysis Soil Sample Quantitation Limits.

Table 2:

CLP Extractable Organic Analysis Soil Sample Quantitation Limits.

Table 3:

CLP Inorganic Analysis Soil Sample Detection Limits.

ATTACHMENT A

KNOWN PRIVATE INDUSTRIAL WELLS WITHIN A 1 MILE RADIUS OF THE FIP CENTER

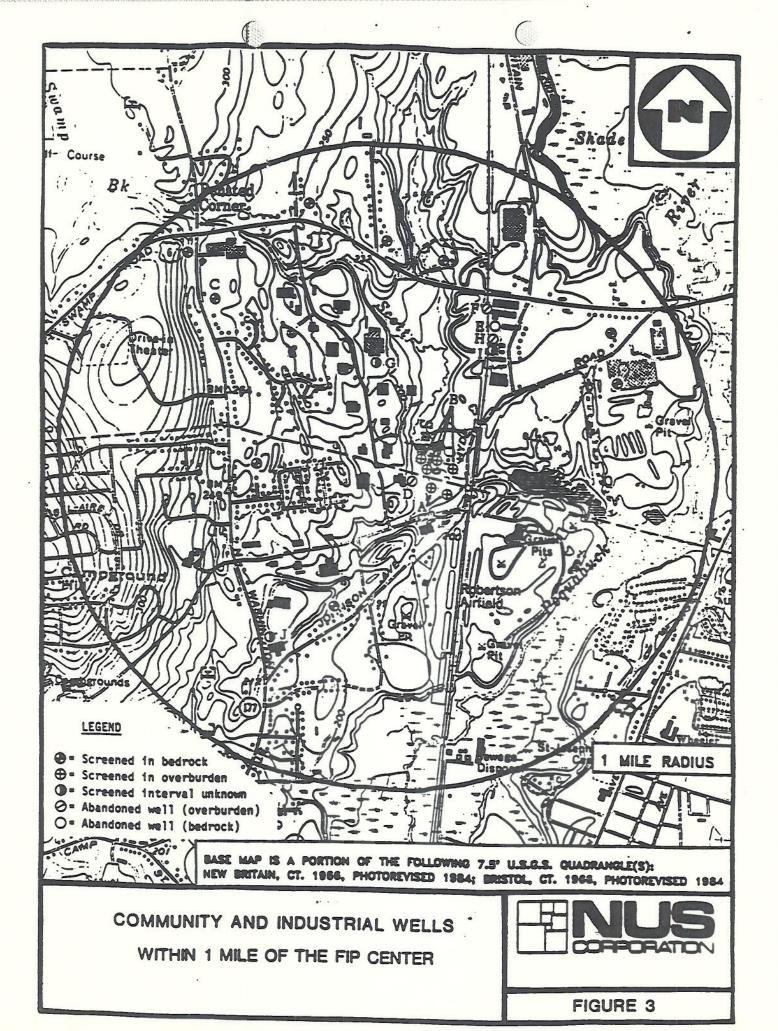
ATTACHMENT A KNOWN PRIVATE INDUSTRIAL WELLS WITHIN A 1 MILE RADIUS OF THE FIP CENTER

Company Name	Date Well Constructed	<u>Depth</u>	Yield		Sampling <u>Conducted</u>	Investigating Organization
Mott Metallurgical Co. (1) D	1968	160 feet	N/A	Never connected to building.	Yes	CT DEP-1989 NUS/FIT-1989
American Research (2) E	1956	632 feet	30 gpm @ 165 feet 75 gpm @ 632 feet	Town DOH ordered well plugged in 1988.	Yes	Minges Env1983 CT DEP-1983
Gros-ite/Whitnon-Spindle (2) F	1955	438 feet	Est. 60-85 gpm.	Not in use for 21 years. Well pumped to waste for 3 days before test by Minges.	Yes	Minges Env1983 CT DEP-1983
Connecticut Spring and Stamping (3) G	1979	330 feet	250 gpm.	Currently in use for A/C water; cooling and process water on emergency basis.	Yes	TRC Env. Consultants-1988
Roy Machinery (Woods Electrical) (2) H	1957-1958	24-26 feet	Less than 5 gpm.	Ordered not to use after sampling by NUS/FIT & CT DEP detected tetrachloroethylene in 198	Yes	Minges Env1983 NUS/FIT-1989 CT DEP-1989
Ken/M&A Construction (2) I	N/A	416 feet	N/A	In use	Yes	Minges Env1983 CT DEP-1989
Tri-D Corp (4) J	1966	280 feet	22 gpm.	N/A	N/A	N/A

Note: Letters following company name correlate with Figure 3.

REFERENCE:

- (1) Young. 1989.
- (2) Minges. 1983.
- (3) TRC. 1983.
- (4) CT DEP. 1975.



WATER COMPLIANCY 122 W. SWINFTON: JANTHERON: CF USIDS

ATTACHMENT B

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JOHNSON AVENUE AND FIP HISTORICAL WELL DATA

Table 1 - Plainville Water Company/Johnson Avenue Well Data

Table 2 - Unionville Water Company/FIT Well Data

Table 3 - Unionville Water Company/FIT Wells 3 & 4 (blend)

TABLE 1
PLAINVILLE WATER COMPANY/JOHNSON AVENUE WELL DATA

	Johns	on Avenue	Well #3	Johnson Avenue Well #6					
Date	TCA	TÇE	PCE	CHC 13	:	TCA	TCE	PCE	
6/2/75	ND	180	⁴ 60	680	•				
6/20/75	• 1000	430	ND	ND			1770		
7/23/75	·870	900	ND	ND					
345 59	וויי ל מוייים	246848	"有器的好流"	S X		9 2 6 4 9	保養を生		
1/5/82 6/40/82R	27 5	7.5	3	ND		2 7 20 7 4 7 70			
6/70/82		4,100			:		1.2	A THE MONEY	
199 ប្រ	3000 L				:				
1/14/86	30.9	3.8	4.7	NO	:	3.3	11.7	ND	
2/26/86	33	ND	NO	ND	:	NO	23	3.9	
3/17/86			50.86 (2080)		:	1.6	18.4	ND	
3/27/86	14.9	3.5	3.8	ND	:	2.1	12.1	1.3	
4/1/86	21.3	5.3	6.2	ND	:	2.3	11.7	ND	
4/18/86	28.4	NO	ND	ND	:	ND	22.9	ND	
5/14/86	36	2.5	3	ND	:	2.3	13	ND	
8/6/86	30.5	4.5	4.9	ND	:	2.1	26.4	ND	
12/22/86	53	5.2	14	ND	:	7.6	9.8	5.8	
2/10/07					:				
2/10/87	23.9	2	12.7	ND	:	ND	19.5	ND	
3/10/87	24.6	2.4	15.2	ND	:	ND	9.7	ND	
8/11/87	16	2.2	4.5	ND	:	3.8	19.3	2.2	
10/6/87	13.5	ND	2.9	ND	:	2	22	ND	
12/1/87	23.6	2.9	6.8	NO	:	2.1	21.4	ND	
1/5/88	22 2				:				
1/26/88	22.7	1.9	4.6	NO	:	ND	19.5	ND	
2/22/88	19.7	2.3	4.9	ND	:	2.1	23.2	ND	
	16.2	ND	4.3	МО	:	ND	18.1	ND	
3/29/88	13.8	ND	3.9	ND	:	ND	25.3	ND	
4/19/88	2	24	ND	ND	:	12.8	2	4.9	
5/12/88	13.5	ND	4.1	ND	:	ND	41	ND	
6/14/88	17.2	2.1	5.5	ND	:	2.5	28	ND	
9/6/88	0200	20			•	2.7	34.8	ND	
10/4/88	17.9	2.4	6.2	ND	:	4.5	2.6	ND	
11/29/88	9.9	2	ND	ND		2.5	21.6	ND	
1/17/80		100720			:	8002T(0 7 27)	10.550 A 10.5 K 5 K 1		
1/17/89	9.7	ND	ND	ND					
1/24/89	3.8	1.6	ND	ND	:				
1/31/89	11.8	22.6	10.2	ND	:				

Concentrations reported in parts per billion (ppb) = approximate value

ND = not detected

TCA = 1,1,1-trichloroethane

TCE = trichloroethylene

PCE = tetrachloroethylene

CMC13 = chloroform

REFERENCES

Connecticut Department of Health Services. 1989. Summary of Organohalides detected in Johnson Avenue Wells 3 & 6. 1/14/86-1/31/89.

Connecticut State Department of Health, Laboratory Division. 1975. Report of Laboratory Examination. Johnson Avenue Well #3. June 2.

Connecticut State Department of Health, Laboratory Division. 1975. Special Examination. Johnson Avenue Well #3. June 20 and July 22.

The Newlands Sanitary Laboratory, 1982, Report of Laboratory Results, Johnson Avenue Well #3, sample collected 1/5/82, January 21.

The Newlands Sanitary Laboratory. 1982. Report of Laboratory. Results. Johnson Avenue Well #6, sample collected 6/10/82.

TABLE 2
UNIONVILLE WATER COMPANY/FIP WELL DATA

	TCA	TCE	PCE	CHC13	
FIP Well 'al					
6/2/75		200	ND	20	芦苇鹭树大水海洋村新
A This Will wall A find 2 if					1 20 8 23 50 18 44 1 1 420
122 JASH (12775) H	йď	04 (35	160	60	
FIP Well #3					4.9
6/2/75	ND	36	73	97	
1/16/80	18	1	5 6.1	ND	
3/20/80	46	1.7	6.1	ND	
4/1/80	46	1.4	8.2	ND	
FIP Well #4					
6/2/75	ND	53	640	77	
1/16/80	18	1	74	ND	
2/22/80	15	1.5	14	ND	
2/29/80	25	1.7	20		
3/4/80	13	1.7		1.8	
3/13/80	17		17	МО	
3/13/60	17	1.9	18	D	

Concentrations reported in parts per billion (ppb) ND = Not Detected

D = Detected, not quantified

TCA = 1,1,1-trichloroethane

TCE = trichloroethylene

PCE = tetrachloroethylene

CHC13 = chloroform

REFERENCES

Connecticut State Department of Health. 1980. Laboratory Results. FIP well #3. samples collected 1/16/80, 3/20/80, and 4/1/80.

Connecticut State Department of Health. 1980. Laboratory Results, FIP well #4, samples collected 1/16/80, 2/22/80, 2/29/80, 3/4/80, and 3/13/80.

Connecticut State Department of Health, Laboratory Division. 1975. Report of Laboratory Examination. Samples collected from FIP wells 1.2.3. and 4. June 2.

TABLE 3
UNIONVILLE WATER COMPANY/FIP WELLS 3 & 4 (blend)

Date	¢	TCA	TCE	PCE
		. • •		PCE
1/3/8		29.5	0.6	3.4
2/1/8		22	0.9	5.6
3/1/8		36	0.6	5.3
4/4/8		23.8	0.9	5.3
5/2/8		22	1.8	4.7
6/1/8		13.3	4.2	19
7/6/8		36	6.5	14.5
8/2/8		38	2	5.1
9/1/8	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	72	4.4	19
10/3/		101	4.7	6.2
11/1/		89.5	3.1	5.9
11/14		42.6	2	1.7
12/5/	83	34.6	1.3	5.2
1/3/8	14	35.2	1.9	2.7
2/1/8	14	23.9	1.6	4.8
3/1/8		15	NO	4.4
5/1/8	14	19.6	2	7.5
6/6/8	14	18.7	ND	4.4
7/2/8	14	31.6	1.2	1.8
8/1/8	14	46.3	4.5	2.5
9/4/8	14	28.1	3	3
10/1/	84	20.5	2.7	1.1
11/1/	84	40.5	NO	7.1
12/14	1/84	21.5	1.6	5.2
1/2/8	15	16.5	1	3.3
2/4/8	15	14	2.6	2.2
3/1/8	15	23.7	2.3	4
4/25/	85	8.9	1.8	3.1
5/2/8	15	20.8	3	3.6
6/3/8	15	33	5.1	5.6
7/1/8	15	ND	NO	1.3
8/5/8	5	32.8	4.6	1.1
9/3/8	15	24.3	5.1	4.1
10/2/	85	29.8	- 5.5	3
11/8/	85	23.4	4.6	3
12/2/	85	9.8	NO	ND

Concentrations reported in parts per billion (ppb)
ND = Not Detected
D = Detected, not quantified
TCA = 1,1,1-trichloroethane
TCE = trichloroethylene
PCE = tetrachloroethylene

REFERENCES

Griswold and fuss Environmental Laboratories Inc. 1983-1985. Laboratory results for samples collected 1/3/83-12/2/85. January 11, 1983 - December 11, 1985.

ATTACHMENT C

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES ANAYTICAL RESULTS OF SOIL SAMPLES COLLECTED FROM MALLORY INDUSTRIES, INC.



STATE OF CONSECTICUT

Department of Health Services Laboratory Division 10 Clinton St.

P.O. Box 1689 Hartford, CT 06144 TELEPHONE: (203) 566-5063

MISC.
DEP ENFORCEMENT/TRADEWASTES
WATER. COMPLIANCE
122 WASHINGTON
HARTFORD CT 06106

I.D. ACCESSION NO. ACCOUNT NO. ROUTE
NRSA: 160829601 A01080:

INFORMATION

FARMINGTON-

HALLORY: INDUSTRIES

FARRINGTON:

COLLECTED	RECEIVED	REPORT
11100	14127	08/25 12:3

(SAMPLE OF: SOI (COLLECTED BY: R (COMPOSITE: NO:) (NO: B: KIND: OF. B	RESULT DERT S. MELVEN T	ACCEPTABL		LOW	ACCEPTAR	BLE RANGE
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STATE OF CONNECTICUT

Department of Health Services
Laboratory Division
10 Clinton St.
P.O. Box 1689
Hartford, CT 06444
TELEPHONE: (203) \$66-5063

I.D.	ACCESSION NO.	ACCOUNT NO.	MOUTE
1828	16082961:	A01080	
		INFORMATION	5 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1

INFORMATION

GARRINGTON MALLORY: INDUSTRIES

FARMINGTON

COLLECTED RECEIVED REPORT
08/14/89 08/11/89 08/28/
11:20 14:27 15:25

MISC.
DEP ENFORCEMENT/TRADEWASTES
WATER COMPLIANCE
122 WASHINGTON
HARTFORD CT 06106

			_				
REPORT:	FINAL: REPORT:		COMMENT:	DRY: WELL	. SOIL		
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RECEIVED
SEP 1 1989
WATER COMPLIANCE



STATE OF CONNECTICUT

Department of Health Services Laboratory Division 10 Clinton St. P.O. Box 1689 Hartford, CT 06144

Hartford, CT 06144 TELEPHONE: (203) 566-5063

PISC:
DEP ENFORCEMENT/TRADEVASTES:
WATER COMPLIANCE
122 WASHINGTON:
HARTFORD CT 06106

I.D. ACCESSION NO. ACCOUNT NO. RO

NR 86 16082962. A01080:

INFORMATION

FARMINGTON: MALLORY INDUSTRIES:

FARMINGTON .

COLLECTED	RECEIVED	REPO
11:40	08/11/89 14827:	08/2

					111840.	14827:	1.12
EPORT:	FINAL REPORT		COMMENT:	. DRANEFT :	3.01L.		
	TEST TEST	RESULT	ACC	EPTABLE RANGE	LOW	ACCEPTABLE RAN	GE
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ATTACHMENT D

CLP ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED BY NUS/FIT AUGUST 14, 1989:

Table 1:

CLP Volatile Organic Analysis Soil Analytical Results

Table 2:

CLP Extractable Organic Analysis Soil Analytical Results

Table 3:

CLP Inorganic Analysis Soil Analytical Results

TABLE 1 PAGE 1 OF 1 MALLORY INDUSTRIES, INC. AUGUST 14,1989 CLP VOLATILE ORGANIC ANALYSIS CASE NO. 12519, SDG NO. AQ204 SOIL ANALYTICAL RESULTS (ug/kg)

Sample Location	SS-01	SS-01R	SS-02	\$\$-03	SS-04	\$\$-05	SS-06	SS-07	SS-08	\$\$-09
Sample Number	22407	22408	22409	22410	22411	22412	22413	22414	22415	22416
Traffic Report Number	AQ204	AQ205	AQ206	AQ207	AQ208	AQ209	AQ210	AQ211	AQ212	AQ213
Remarks		Replicate							Background	Blank
Sampling Date	14-416-89	14-AUG-89	14-41/0-90	14-4110-00	14 446 00	14 4116 80	1.4.4.40.00		14-AUG-89	
Analysis Date			22-AUG-89	22-AUG-89	22-AUG-89	23-AUG-89	22-AUG-89	23-AUG-89	22-AUG-89	14-AUG-89 23-AUG-89
VOLATILE ORGANIC COMPOUND										
Chloromethane										
Bromomethane										
Vinyl Chloride										
Chloroethane				1000					4	
Methylene Chloride			5 J	5 J	5 J					
Acetone						8 J				
Carbon Disulfide							1			
1,1-Dichloroethene	!	1					1 1			
1,1-Dichloroethane										
1,2-Dichloroethene (Total)	!	Į.								
Chloroform										
1,2-Dichloroethane										
2-Butanone										
1,1,1-Trichloroethane			- 6							ĺ
Carbon Tetrachloride	!									
Vinyl Acetate								1		
Bromodichloromethane	!									İ
1,2-Dichloropropane							1 1			
cis-1,3-Dichloropropene							[]		, .	
Trichloroethene										
Dibromochloromethane										
1,1,2-Trichloroethane						i i	1	1		
Benzene										
trans-1,3-Dichloropropene										
Bromoform	!				3			98		
4-Methyl-2-pentanone						l i		J		
2-Hexanone								1		
Tetrachloroethene										
1,1,2,2-Tetrachloroethane							1			
Toluene										
Chlorobenzene										
Ethylbenzene	!									
Styrene	1							į		
Xylene (Total)						1		j		
Total VOC Concentration (ug/Kg)	1				3		ı i	i		

A blank space indicates the volatile organic compound (VOC) was not detected. Sample results are reported on a dry weight basis.

Sample Quantitation Limits for the compounds listed above are reported in Attachment E Table 1.

J Quantitation is approximate due to limitations identified during the quality control review.

TABLE 2 PAGE 1 OF 2
MALLORY INDUSTRIES, INC.
AUGUST 14,1989.

CLP EXTRACTABLE ORGANIC ANALYSIS
CASE NO. 12519, SDG NO. AQ204
SOIL ANALYTICAL RESULTS (ug/Kg)

Sample Location	SS-01	SS-01R	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09
Sample Number	22407	22408	22409	22410	22411	22412	22413	22414	22415	22416
Traffic Report Number	AQ204	AQ205	AQ206	AQ207	AQ208	AQ209	AQ210	AQ211	AQ212	AQ213
Remarks		Replicate							Background	Blank
Sampling Date	14-AUG-89	14-AUG-89								
Extraction Date	21-AUG-89	22-AUG-89	22-AUG-89							
Analysis Date	5-SEPT-89	31-AUG-89	31-AUG-89	31-AUG-89	31-AUG-89	31-AUG-89	5-SEPT-89	5-SEPT-89	6-SEPT-89	6-SEPT-89
SEMI-VOLATILE COMPOUND										
Phenol bis (2-Chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol bis (2-Chloroisopropyl)ether 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Benzoic acid bis (2-Chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,5-Trichlorophenol 2-Chloromaphthalene 2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene			•							

TABLE 2 PAGE 2 OF 2 MALLORY INDUSTRIES, INC. AUGUST 14,1989 CLP EXTRACTABLE ORGANIC ANALYSIS CASE NO. 12519, SDG NO. AQ204 SOIL ANALYTICAL RESULTS (ug/kg)

Sample Location	SS-01	SS-01R	SS-02	55-03	SS-04	\$5-05	SS-06	SS-07	SS-08	SS-09
Sample Number	22407	22408	22409	22410	22411	22412	22413	22414	22415	22416
Traffic Report Number	AQ204	AQ205	AQ206	AQ207	AQ208	AQ209	AQ210	AQ211	AQ212	AQ213
Remarks		Replicate							Background	Blank
Sampling Date	14-AUG-89	14-AUG-89	14-AUG-89	14-AUG-89						
Extraction Date	21-AUG-89	21-AUG-89	22-AUG-89	22-AUG-89						
Analysis Date	5-SEPT-89	31-AUG-89	31-AUG-89	31-AUG-89	31-AUG-89	31-AUG-89	5-SEPT-89			6-SEPT-89
SEMI-VOLATILE COMPOUND										
3-Nitroaniline Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenyl-phenylether Fluorene 4-Nitroaniline 4,6-Dinitro-2-methylphenol N-Nitrosodiphenylamine 4-Bromophenyl-phenylether Hexachlorobenzene Pentachlorophenol				•					4	
Phenanthrene Anthracene Di-n-butylphthalate Fluoranthene Pyrene Butylbenzylphthalate		e					220 J 210 J	810 2400 1600		*
3,3'-Dichlorobenzidine Benzo(a)anthracene Chrysene bis(2-Ethylhexyd)phthalate Di-n-octyl phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno (1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene				190 J		230 J	,	750 J 990 1800 800 500 J 390 J	180 J	31 J

Sample results are reported on a dry weight basis.

A blank space indicates the Volatile Organic Compound(VOC) was not detected.

J Quantitation is approximate due to limitations identified during the quality control review.

Sample Quantitation Limits for the compounds listed above are reported in Attachment E Table 2.

TABLE 3 PAGE 1 OF 1 MALLORY INDUSTRIES, INC. AUGUST 14, 1989 CLP INORGANIC ANALYSIS CASE NO. 12519, SDG NO. MAL951 SOIL ANALYTICAL RESULTS (mg/Kg)

Sample Loca	ation		SS-01	SS-01R/D	SS-02	\$5-03	SS-04	SS-05	SS-06	SS-07	SS-08
Sample Numb	oer		22407	22408	22409	22410	22411	22412	22413	22414	22415
Tankala Da											22473
Traffic Rep	DOFT NO		MAL951	MAL952	MAL953	MAL954	MAL955	MAL956	MAL957	MAL958	MAL959
Remarks				Duplicate							Background
% Dry	Wgt.	_	83.0%	84.9%	87.4%	86.0%	- 00 74				
Inorganic É			22.01.	04.5%	87.4%	86.0%	86.7%	85.3%	79.4%	87.1%	90.3%
Aluminum		P	11600.00	12200.00	9010.00	15000.00	16000.00	12100 00			
Antimony		P	4.70 J		30.0.00	13000.00	16000.00	13100.00	18200.00	11200.00	4080.00
Arsenic		F	3.30	2.80	1.80	2.90	3.00	2.80	2.60	2.70	
Barium		P	1		1	48.10	55.50	42.10	49.90	50.30	1.50
Beryllium		P	0.97 J	0.93 J	0.91 J	0.92 J	0.92 J	0.94 J	1.00 J	0:03-J	0.20
Cadmium		P		ROMANIA BANGO		W0000000000000000000000000000000000000		0.04 0	1.00 0	0.03-3	0.30 J
Calcium		P	295.00	435.00	424.00	383.00	232.00	i	488.00	675.00	556.00
Chromium		P	13.70 J	12.70 J	9.80 J	13.50 J	14.50 J	12.60 J	16.20 J	12.90 J	5.40 J
Cobalt Copper		P	6.70	6.10	5.20	6.70	6.10	6.00	8.30	6.40	3.30
lron		P	14400 00					VEX.05.05		0.40	3.30
ead		PI	14400.00	14500.00	12000.00	16700.00	16800.00	14400.00	17700.00	14600.00	5930.00
Magnesium		P	5.40	7.30	3.70	7.40	9.40	8.50	9.10	12.10	2.70
Manganese		P	2670.00	2860.00	2500.00	2890.00	2530.00	2310.00	3260.00	2850.00	1330.00
Mercury		cvi	237.00	223.00	226.00	275.00	240.00	231.00	325.00	407.00	172.00
lickel		P	10.80 J	9.90 J	8.80 J						
otassium		P	902.00	951.00	1020.00	10.20 J	10.10 J	8.80 J	11.30 J	11.20 J	5.10 J
Selenium		F	302.00	931.00	1020.00	916.00	667.00	741.00	677.00	1150.00	655.00
Silver		P		i	1						
Sodium		P	86.30 J	84.70 J	96.40 J	71 50 1	05 00 .			1	
hallium		F	R I	8 R	96.40 J	71.50 J	65.00 J	56.50 J	75.30 J	78.60 J	49.20 J
anadium		P	29.20 J	29.90 Ĵ	23.40 J	31.40 J	32 00 H	R	R	R	R
inc	*0 90	P	24.30 J	24.00 J	21.30 J	28.30 J	32.80 J	28.00 J	32.50 J	27.60 J	12.80 J
yanide	•	ci	NA	NA NA	NA NA	28.30 J	28.60 J	24.80 J	35.40 J	30.70 J	10.20 J
nalytical						110		NA	NA	· NA	NA

Analytical Method

Furnace

P ICP/Flame AA

CV Cold Vapor

C Colorimetric

NOTE:

Sample results are reported on a dry weight basis. A blank space indicates the element was not detected.

Quantitation is approximate due to limititations identified in the quality control review.

Value is rejected.

NA Not Analyzed

Sample Detection Limits for the elements listed above are reported in Attachment E Table 3.

ATTACHMENT E

CLP SOIL SAMPLE QUANTITATION AND DETECTION LIMITS:

Table 1: CLP Volatile Organic Analysis Soil Sample Quantitation Limits

Table 2: CLP Extractable Organic Analysis Soil Sample Quantitation Limits

Table 3: CLP Inorganic Analysis Soil Sample Detection Limits

TABLE 1 PAGE 1 OF 1 MALLORY INDUSTRIES, INC. AUGUST 14, 1989

CLP VOLATILE ORGANIC ANALYSIS CASE NO. 12519, SDG NO. AQ204 SOIL SAMPLE QUANTITATION LIMITS (ug/Kg)

Sample Location	SS-01	SS-01R	SS-02	\$\$-03	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09
Sample Number	22407	22408	22409	22410	22411	22412	22413	22414	22415	22416
Traffic Report Number	AQ204	AQ205	AQ206	AQ207	AQ208	AQ209	AQ210	AQ211	AQ212	AQ213
Remarks		Replicate						2 1	Background	Blank
VOLATILE ORGANIC COMPOUND										
Chloromethane	12	11	12	11	11	12	13	11 5	11	10
Bromomethane	12	11 1	12	11	11	12	13	11	11	10
Vinyl Chloride	12	11	12	11	11	12	13	11 3 5	7 11	10
Chloroethane	12	11	12	11	11	12	13	11	11	10
Methylene Chloride	10	8	6	6	6	6	7	9	8	8
Acetone	29	12	18	19	14	12	13	11	1 11	21
Carbon Disulfide	6	6	6	6	6	6	6	5	4 6	5
1.1-Dichloroethene	6	6	6	6	6	6	6	5	6	5
1,1-Dichloroethane	6	6	6	6	6	6	6	5	i 6 i	5
1,2-Dichloroethene (Total)	6	6	6	6	6	6	6	5	1 6 1	5
Chloroform	6	6	6	6	6	6	6	5	i 6 i	5
1.2-Dichloroethane	6	6	6 '	6	6	6	6	5	i 6 i	5
2-Butanone	12	1 11 1	12	11	11	12	13	11	111	10
1,1,1-Trichloroethane	6	6	6	6	6	6	6	5	6	5
Carbon Tetrachloride	6	6	6	6	6	6	6 1	5	i 6 i	5
Vinyl Acetate	12	1 11 1	12	1 11	11	12	13	11	1 11	10
Bromodichloromethane	6	6	6	i 6	6	6	6	5	6	5
1,2-Dichloropropane	6	6	6	6	6	6	6	5	6	5
cis-1,3-Dichloropropene	6	6	6	6	6	6	6	5	6	5
Trichloroethene	6	6	6	6	6	6	6	5	6	5
Dibromochloromethane	6	6 1	6	6	6	6	6	5	6	. 5
1,1,2-Trichloroethane	6	6	6	i 6	6	6	6	5	6	5
Benzene	6	6	6	6	6	6	6	5 .	6	5
trans-1,3-Dichloropropene	6	1 6 1	6	6	6	6	6	5	6	5
Bromoform	6	6	6	6	6	6	6	5	1 6 1	5
4-Methyl-2-pentanone	12	1 11	12	111	11	12	13	11	1 11	10
2-Hexanone	12	l ii l	12	111	i ii	12	13	ii	i ii i	10
Tetrachloroethene	6	6	6	6	6	6	6	5	6	5
1,1,2,2-Tetrachloroethane	6	6 1	6	6	6	6	6	5	6	5
Toluene	6	6	6	6	6	6	6	5	6	5
Chlorobenzene	6	6	6	6	6	6	6	5	6	5
Ethylbenzené *	6	6	6	6	6	6	6	5	6 1	5
Styrene	6	6	6	6	6	6	6	5	6	5
Xylene (Total)	6	6	6	6	6	6	6	5	6	5
.,, cond (local)	U		U	Ü		· ·	U	5		5

Sample Quantitation Limits are reported on a dry weight basis.

UJ Quantitation limit is approximated due to limitations during the quality control review.

TABLE 2 PAGE 1 OF 2
MALLORY INDUSTRIES, INC.
AUGUST 14, 1989
CLP EXTRACTABLE ORGANIC ANALYSIS
CASE NO. 12519, SDG NO. AQ204
SOIL SAMPLE QUANTITATION LIMITS (ug/Kg)

Sample Location	SS-01	SS-OIR	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09
Sample Number	22407	22408	22409	22410	22411	22412	22413	22414	22415	22416
Traffic Report Number	AQ204	AQ205	AQ206	AQ207	AQ208	AQ209	AQ210	AQ211	AQ212	AQ213
Remarks		Replicate							Background	Blank
SEMI-VOLATILE COMPOUND									-	
Phenol	780	770	750	760	750	780	800	750	730 UJ	650
bis (2-Chloroethyl) ether	780	770	750	760	750	780	800	750	- 730 UJ	650
2-Chlorophenol	780	770	750	760	750	780	800	750 (730 UJ	650
1.3-Dichlorobenzene	780	770	750	760	750	780	800		730 UJ	650
1,4-Dichlorobenzene	780	770	750	760	750	780	800	750 750	730 UJ	650
Benzyl Alcohol	780	770	750	760	750	780	800	750	730 UJ	650
1,2-Dichlorobenzene	780	770	750	760	750	780	800	750	730 03	650
2-Methylphenol	780	770	750	760	750	780	800	750	730 UJ	650
bis (2-Chloroisopropyl)ether	780	770	750	760	750	780	800	750	730 UJ	650
4-Methylphenol	780	770	750	760	750	780	800	750	730 UJ	
N-Nitroso-di-n-propylamine	780	770	750	760	750	780	800	750		650
Hexachloroethane	780	770	750	760	750	780	800	750	730 UJ	650
Nitrobenzene	780	770	750	760	750	780	800	750	730 UJ	650
Isophorone	780	770	750	760	750	780	800	750		650
2-Nitrophenol	780	770	750	760	750	780	800	750	730 UJ	650
2,4-Dimethylphenol	780	770	750	760	750	780	800	750	730 UJ	650
Benzoic acid	3800	3700	3600	3700	3600	3800	3900	3600		650
bis (2-Chloroethoxy) methane	780	770	750	760	750	780	800	750	3500 UJ	3200 U
2,4-Dichlorophenol	780	770	750	760	750	780	800		730 UJ	650
1,2,4-Trichlorobenzene	780	770	750	760	750	780		750	730 UJ	650
Naphthalene	780	770	750	760	750	780	800 800	750	730 UJ	650
1-Chloroaniline	780	770	750	760	750	780		750	730 UJ	650
dexachlorobutadiene	780	770	750	760	750	780	800	750	730 UJ	650
1-Chloro-3-methylphenol	780	770	750	760			800	750	730 UJ	650
2-Methylnaphthalene	780	770	750	760	750	780	800	750	730 UJ	650
dexachlorocyclopentadiene	780	770	750	760	750	780	800	750	730 UJ	650
2,4,6-Trichlorophenol	780	770	750	760	750	780	800	750	730 UJ	650
2,4,5-Trichlorophenol	3800	3700			750	780	800	750	730 UJ	650
2-Chloronaphthalene	780	770	3600 750	3700	3600	3800	3900	3600	3500 UJ	3200
2-Nitroaniline	3800	3700	3600	760 3700	750	780	800	750	730 UJ	650
Dimethylphthalate	780	770			3600	3800	3900	3600	3500 UJ	3200
cenaphthylene			750	760	750	780	800	750	730 UJ	650
2.6-Dinitrotoluene	780	770	750	760	750	780	800	750	730 UJ	650
., o-Dinitrotoluene	780	770	750	760	750	780	800	750	730 UJ	650

TABLE 2 PAGE 2 OF 2 MALLORY INDUSTRIES, INC. AUGUST 14, 1989

CLP EXTRACTABLE ORGANIC ANALYSIS

CASE NO. 12519. SDG, NO. AQ204 SOIL SAMPLE QUANTITATION LIMITS (Ug/Kg)

Sample Location	SS-01	SS-01R	SS-02	\$5-03	SS-04	SS-05	SS-06	SS-07	SS-08	\$\$-09
Sample Number	22407	22408	22409	22410	22411	22412	22413	22414	-22415	22416
raffic Report Number	AQ204	AQ205	AQ206	AQ207	AQ208	AQ209	AQ210	AQ211	AQ212	AQ213
Remarks		Replicate								
		Repricate							Background	Blank
SEMI-VOLATILE COMPOUND						-			215.	
3-Nitroaniline	3800	3700	3600	3700	3600	3800	3900	3600	3500 U	2000
cenaphthene	780	770	750	760	750	780	800	750		3200
2,4-Dinitrophenol	3800	3700	3600	3700	3600	3800	3900	3600	730 U	650
-Nitrophenol	3800	3700 I	3600	3700	3600	3800	3900	3600	3500 U	3200
Dibenzofuran	780	770	750	760	750	780	800	750	5 3600 U	3200
2,4-Dinitrotoluene	780	770	750	760	750	780	800	750	730 U	650
liethylphthalate	780	770	750	760	750	780	800	750	730 U	650
-Chlorophenyl-phenylether	780	770	750	760	750	780	800	750 750	730 U	650
luorene	780	770	750	760	750	780	800	750 750	730 U	650
-Nitroaniline	3800 U	3700	3600	3700	3600	3800	3900 U		730 U	650
,6-Dinitro-2-methylphenol	3800	3700	3600	3700	3600	3800		3600 U		3200
-Nitrosodiphenylamine	780	770	750	760	750	780	3900	3600	3500 U	3200
-Bromophenyl-phenylether	780	770	750	760	750	780	800	750	730 U	650
exachlorobenzene	780	770	750	760	750	780	800	750	730 U	650
entachlorophenol	3800	3700	3600	3700	3600		800	750	730 U	650
henanthrene	780	770	750	760	750	3800	3900	3600		3200
nthracene	780	770	750	760		780	800	750	730 U	650
i-n-butylphthalate	780	770	750	760	750	780	800	750	730 U	650
luoranthene	780	770	750	760	750	780	800	750	730 U	650
vrene	780	770 U	750 U		750	780	800	750	730 U	650
utylbenzylphthalate	780	770	750	760 U	750 U	780 U	800	750	730 U	650
,3'-Dichlorobenzidine	1600	1500	1500	1500	750	780	800	750	730 U	650
enzo(a)anthracene	780	770	750		1500	1600	1600	1500	1500 U	1300
hrysene	780	770	750	760	750	780	800	750		650
is(2-Ethylhexyl)phthalate	500	770 U	720	760	750	780	800	750	730 U	650
i-n-octyl phthalate	780	770	750	330	560	330	800	330	730 U	330
enzo(b)fluoranthene	780	770	750	760	750	780	800	750	15 730 U	650
enzo(k)fluoranthene	780 U	770	750	760	750	780	800	750	, ,,,,	650
enzo(a)pyrene	780	770	750	760	750	780	800 U	750 U		650
ndeno (1,2,3-cd)pyrene	780	770 U		760	750	780	800	750	730 U	650
ibenz(a,h)anthracene	780		750 U	760 U	750 U	780 U	800	750	730 U	650
enzo(g,h,i)perylene	780	770 U	750 U	760 U	750 U	780 U	800	750	730 U	650
	780	770 U	750 U	760 U	750 U	780 U	800	750	730 U	650
) 4	Sample	Quantitation	Limits ar	e reported o	n a dry we	ight basis				
	11 0	- 4 1 11-11				3				

Sample Quantitation Limits are reported on a dry weight basis.

UJ Quantitation limit is approximated due to limitations during the quality control review.

TABLE 3 PAGE 1 OF 1 MALLORY INDUSTRIES, INC. AUGUST 14, 1989 CLP INORGANIC ANALYSIS CASE NO. 12519, SDG. NO. MAL951 SOIL SAMPLE DETECTION LIMITS (mg/Kg)

Sample Location		SS-01	SS-01R/D	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08
Sample Number		22407	22408	22409	22410	22411	22412	22413	22414	22415
Troffil - D								22110	22717	22415
Traffic Report Number		MAL951	MAL952	MAL953	MAL954	MAL955	MAL956	MAL957	MAL958	MAL959
Remarks	***************************************		Duplicate							Background
Percent Solids		83.0%	84.9%	87.4%	86.0%					
				07.4%	86.0%	86.7%	85.3%	79.4%	87.1%	90.3%
Inorganic Elements	Instrument Detection Limits (ug/L)									
Aluminum P	29.0	7.0	6.8	6.6	6.7					4
Antimony p	17.0	4.1 UJ	4.0 UJ	3.9 UJ	4.0 UJ	6.7	6.8	7.3	6.7	6.4
Arsenic F	2.0	0.5	0.5	0.5	0.5	3.9 01	4.0 UJ	4.3 UJ	3.9 UJ	3.8 UJ
Barium p	3.0	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.4
Beryllium p	1.0	0.2		0.2	0.2		0.7	0.8	0.7	0.7
Cadmium p	4.0	1.0	0.9	0.9	0.9	0.2	0.2	0.3	0.2	0.2
Calcium p	51.0	12.3	12.0	11.7	11.9	11.8	0.9	1.0	0.9	0.9
Chromium p	10.0	2.4	2.4	2.3	2.3		12.0	12.8	11.7	11.3
Cobalt p	5.0	1.2	1.2	1.1	1.2	2.3	2.3	2.5	2.3	2.2
Copper p	5.0	8.1 UJ	11.0 00	10.30 00		1.2	1.2	1.3	1.1	1.1
Iran p	24.0	5.8	5.7	5.5	8.8 UJ 5.6	6.4 UJ	7.2 UJ	9.0 01	8.8 UJ	5.3 UJ
Lead p	1.0	0.2	0.2	0.2		5.5	5.6	6.0	5.5	5.3
Magnesium p	40.0	9.6	9.4	9.2	9.3	0.2	0.2	0.3	0.2	0.2
Manganese a p	3.0	0.7	0.7	0.7	0.7	9.2	9.4	10.1	9.2	8.9
Mercury CV	0.20	0.1	0.1	0.1	0.1	0.7	0.7	0.8	0.7	0.7
Nickel p	7.0	1.7	1.6	1.6		0.1	0.1	0.1	0.1	0.1
Potassium p	179.0	43.1	42.2	41.0	1.6	1.6	1.6	1.8	1.6	1.6
Selenium F	3.0	0.7 UJ	0.7 UJ	0.7 UJ	41.6	41.3	42.0	45.1	41.1	39.6
Silver	8.0	· 1.9 UJ	1.9 03	1.8 UJ	0.7 UJ	0.7 UJ	0.7 UJ	0.8 UJ	0.7 UJ	0.7 UJ
Sodium p	74.0	17.8	17.4	16.9	1.9 00	1.8 UJ	1.9 00	2.0 UJ	1.8 UJ	1.8 UJ
Thallium F	2.0	17.0 R	17.4 R		17.2	17.1	17.4	18.6	17.0	16.4
/anadium p	6.0	1.4		R	R	R	R I	R	R	R
Zinc p	6.0	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.4	1.3
Cyanide C	NA O.U	NA I		1.4	1.4	1.4	1.4	1.5	1.4	1.3
,	170	NA I	NA	NA	NA	NA	NA I	NA I	NA.	NA

Sample Detection Limits are reported on a dry weight basis.

UJ The detection limit is approximated due to limitations identified in the quality control review (data validation).

Value is rejected.

NA Not Analyzed.

Furnace AA

ICP/Flame AA CV Cold Vapor

C Colorimetric

Site Name: Mallory Industries, Inc. CERCLIS No.: CTD001148568

TDD No.: F1-8905-01

Reference No.: \$375CTW4I\$

NPL ELIGIBILITY CHECKLIST

784 - 4 - 4 (15 m)	NPL ELIGIBILITY	CHECKLIST		
	÷	YES	0	COMMENTS
Are the wastes onsite considered haza CERCLA?	ardous as defined in	<u>x</u> _		
*Sites covered by other authorities	es:			
Are the hazardous materials at the site products (gasoline, oil, natural gas)?	e solely petroleum		_X_	
Is the contamination at the site caused pesticides that were applied using an If the release is into public or private of	accepted practice? drinking water		_X_	
systems, is it due to deterioration of the ordinary use?	ne system through		_X_	
Is the release from products which are structure, and results in exposure with business, or community structures?			<u> x</u>	
Did the release result in exposure to p within a work place?	eople solely		_x_	
Does the facility have an Underground permit under the Safe Drinking Water			_x_	
Is the release the result of the normal fertilizer?	application of		_x_	
Does the release involve naturally occ in their unaltered form?	urring substances		_X_	
Does the contamination at the site corradioactive materials generated by De Energy/Atomic Energy Commission ac	epartment of		<u>X</u>	
Is the contamination at the site caused coal mining operations?	d solely by		_x_	
Does the facility have a permit from the Army Corps of Engineers (under the IV Research, and Sanctuaries Act) to dispiraterials in ocean waters?	larine Protection,		_X_	

TDD No.: F1-8905-01 Reference No.: \$375CTW4I\$ COMMENTS YES NO *Other issues to site definition: Is the site defined solely as a contaminated well field? X Is the site currently owned or operated by a federal 1200 Color Say Tree of the Color agency, or has it been in the past? CERTIFIES NO CONDAX Is the site a municipal landfill? Check if there is documentation of disposal of industrial waste. Does the waste consist of a "special waste" such as X fly ash? Check if there is documentation of a hazardous component to the waste. Does the facility have an NPDES permit? X Check if the facility has a history of permit violations. Is the facility subject to ambient air quality standards under the Clean Air Act? Does the facility have a permit under the Clean Air Act? *RCRA Status X Has the facility notified as a RCRA generator? -- The facility is a large quantity generator. The facility is a small quantity generator. Has the facility ever had RCRA interim status or a RCRA permit? _X_ If yes, check any that apply: The facility is a "non-notifier" or "protective filer" (identified as such

Site Name: Mallory Industries, Inc. CERCLIS No.: CTD001148569

by EPA or the state).

sice mainer manory minastro CERCLIS No.: CTD001148568 TDD No.: F1-8905-01 Reference No.: \$375CTW4IS *RCRA Status (continued) -- The owner of the facility is bankrupt, or the owner has filed for protection under bankruptcy laws (if known). -- A RCRA compliance order or notice of violation has been issued for the facility at some time. 1. 11. ... and the contract of the contra The order or notice concerned: conditions that posed a hazard (i.e., a release of contamination to the environment) OR administrative violations (i.e., recordkeeping or financial requirements). -- Some RCRA enforcement action is currently pending at the facility. -- A RCRA permit has been denied or interim status has been revoked for the facility. The permit or interim status was revoked: because of conditions at the facility that posed a hazard OR

- because the facility failed to meet an administrative requirement (i.e., failed to file an acceptable Part B permit application).
- A closure plan has been requested or submitted for the facility under RCRA.
- A closure plan has been approved for the facility under RCRA.
- The facility is closed and currently monitoring under RCRA regulations.

CERCLIS DATABASE FORM

DATE: 7/10/90 SITE NAME: Mallory Industries, Inc. CERCLIS No. CTD001148568 PROJECT MANAGER: Tony Davis **DIRECTIONS TO SITE:** 95 S to Mass Pike (90) W to 84 W to Rte. 6. Take Rte. 6 to Spring Lane. Mallory Industries, Inc. is located approximately 1/4 miles on right, at intersection of Right Lane. **ELEMENT CERCLIS CODE** DESCRIPTION **ENTRY** (No. of positions) I. FOR ALL PROJECTS State C2(2) Postal code CT Site ID C101(12) **Dun & Bradstreet** (If available) or GSA Site Name C104(40) Mallory Industries, Inc. Street Address C110(25) Right Lane City C111(25) Farmington County *TBD Hartford Ownership C136(2)FF = Federally owned ST State owned CO = County owned DI = District owned IL = Indian lands Mixed ownership MI = Unknown UN *TBD1 Municipally owned *TBD2 Privately owned OH Other private Years of operation *TBD 1965 to currently operating 25 years **FMS Number** (if assigned) C315(4)Coordinates *TBD Latitude 72°52′0″

Longitude

41°42′50"

ELEMENT	CERCLIS CODE (No. of positions)	DESCRIPTION	ENTRY
	C2103(1)		SSI Required SSI Recommended No Further Remedial Action Planned
			ended for an LSI to another authority = No Further Remedial Action Planned
		For LSIs: G = Recomme N = NFRAP	ended for an HRS Scoring = No Further Remedial Action Planned
Note	C2105(20)	Abbreviated Commer	nts
Reasons for Ineligibility (for Sites Determined Ineligible under			
CERCLA)	*TBD	*TBD1 = Petroleum *TBD2 = Active RCR *TBD3 = Properly ap *TBD4 = Nuclear/rac *TBD5 = All other re	A facility oplied pesticide dioactive waste
Agency Responsib	le C2117(2)	E - EDA Fund	financed
TOT WORK ALSILE	C2117(2)	F = EPA, Fund : S = State, Fund : SN = State, no Fo FF = Federal fac *TBD = Responsible	l financed und financing ility

ELEMENT	CERCLIS CODE (No. of positions)	DESCRI	PTION	ENTRY	
II. ONLY FOR SITE	WITH HRS				
Type of Facility of Source	C137(1)	B =		nical Plant	E _{type}
	é .	C = L = M = N = F = T = P = A =	Manu Milita Othe mine Lago	ufacturing Plant ary Facility r Federal Facility s/tailings	
If unknown,					
Type of Waste Present		R = J = *TBD = I = D =	Inorg Orga Othe	pactive Waste Janic Waste nic Waste r Industrial Waste n	
If unknown, Type of Receptor					
Affected		V = H = W = *TBD =	Hous Drink Ecolo	erways/river ing Area king Water Wells ogical Receptors r	
Abstract	C201(240)	Site De	scription		
			**		